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Students' Department

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Students' Department

H. P. BAUMANN, *Editor*

AMERICAN INSTITUTE EXAMINATIONS

[NOTE.—The fact that these solutions appear in THE JOURNAL OF ACCOUNTANCY should not cause the reader to assume that they are the official solutions of the board of examiners. They represent merely the opinions of the editor of the *Students' Department*.]

EXAMINATION IN ACCOUNTING THEORY AND PRACTICE—PART II

November 13, 1931, 1:30 P. M. to 6:30 P. M.

The candidate must answer all the following questions:

No. 1 (40 points):

You are engaged to examine the record of capital stock, sold and issued, of the Natural Gas Company, from date of incorporation to March 31, 1931, and to make a detailed audit of the books of account during the period of production—January 1 to March 31, 1931.

The company was incorporated January 2, 1928, with an authorized capital of 500,000 shares of the par value of \$1.00 each.

Your perusal of the minute book discloses that, pursuant to the provisions of the statutes of the state in which the company was incorporated, the entire capital stock of the company had been issued to P. Smith, in payment for gas leases, oil leases and contracts obtained from landowners at a fixed annual rental, until production of gas, when the rental would be converted to a royalty of 12½ per cent. of the gross value of the gas sold.

It was further disclosed that, under a pre-incorporation agreement, the promoters had sold and collected the proceeds of 205,000 shares of stock at 20 cents a share, which they accounted for as follows:

Proceeds:

From pre-incorporation subscriptions, 205,000 shares at 20 cents a share		\$41,000
Disposition:		
Gas wells—producing	\$22,000	
Gas wells—abandoned	11,000	
Leases expired	451	
Leases unexpired	644	
Supervision	1,581	
Cash in bank	5,324	
		<hr/>
		\$41,000

You notice that certain items only are entered on the books of the company and credited, in total, to leases and contracts, viz.:

Gas wells—producing	\$22,000
Leases unexpired	644
Cash (by cheque)	5,324
	<hr/>
	\$27,968

This record, together with a cheque payable to the company for the amount of the balance in bank and a legal transfer of all rights, titles and interest secured through these funds, was accepted and approved by the board of directors, which ordered that the record and transfers be given proper entry on the books of the company.

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In order to raise funds for development of the gas structure, on which the company now holds the leases, Smith offered to donate to the treasury of the company 100,000 shares of stock for resale. The offer was accepted, approved and ratified by the board of directors, which fixed the resale price at \$1.00 a share. A further offer of Smith to transfer 200,000 shares from his personal holdings for issuance to pre-incorporation subscribers was also accepted and approved, it being understood that any additional stock obligations to pre-incorporation subscribers would be supplied from the treasury of the company.

The treasurer (a man of means) deposited all receipts from the sale of stock in his personal bank account, relying upon the company's bookkeeper for the proper record of transactions. In checking this record you find the treasury-stock account credited with a remittance to cover 5,000 shares of stock donated by Smith, from his personal holdings, to the treasury of the company for transfer to A. Jones, in payment for pre-incorporation assistance to him, and another remittance of 100 shares, issued to replace a lost certificate. You note, also, that the bookkeeper had failed to obtain remittance for 1,250 shares that had been sold and issued. It was further disclosed that the treasurer had, personally, purchased 1,000 shares from a dissatisfied holder of capital stock, the certificate for which was found surrendered and attached to its relative stub without further transfer. Calling attention of the officers to these irregularities, you are requested to make the necessary corrections.

A trial balance, taken from the books, March 31, 1931, was as follows:

Abstracts of title	\$ 670	
Accounts payable		\$ 26,439
Accounts receivable	1,967	
Automobile	400	
Auto, expense	194	
Camp buildings	720	
Capital stock authorized		500,000
Cash in bank	182	
Casing, pipe, etc., in stores	10,624	
Development costs	112,364	
Equipment and pipe in place	60,000	
Incorporation costs	674	
Interest paid	718	
Land	4,600	
Land contracts		2,700
Leases and contracts	472,032	
Lease rentals	431	
Notes payable		33,947
Revenue from gas wells		6,114
Royalties paid (12½%)	764	
Salary of manager	900	
Sundry expenses	454	
Surplus donated		100,000
Taxes paid (property)	37	
Traveling	605	
Treasury stock	864	
	<u>\$669,200</u>	<u>\$669,200</u>

The company has decided to capitalize all development costs and to compute depletion on the basis of 27½ per cent. of gross income and depreciation on the productive life of ten years, without salvage value, in the case of camp buildings and equipment and four years on that of the automobile.

Make the necessary adjustments to bring the accounts in accord with the facts presented. Prepare profit-and-loss account for the three months' period—January 1 to March 31, 1931, and balance-sheet as of March 31, 1931.

Is the rate of depletion determined fully deductible for income-tax purposes?

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Solution:

The entries necessary to correctly state the authorized capital stock, the donation of the 300,000 shares by Mr. Smith, and the accounting for the \$41,000 collected by the promoters, should appear somewhat as follows:

(1)

Leases and contracts.....	\$500,000	
Capital stock—authorized.....		\$500,000
To record the authorized capital stock of 500,000 shares of a par value of \$1 a share.		

(2)

Treasury stock.....	100,000	
Donated surplus.....		100,000
To record 100,000 shares of capital stock to be sold for \$1 each which shares were donated by Mr. Smith for the purpose of raising funds for the development of the gas structure.		

From the trial balance it may be assumed that entries numbers 1 and 2 were made on the books.

(3)

Treasury stock.....	200,000	
Donated surplus.....		200,000
To record the acceptance of the further offer of Mr. Smith of 200,000 shares of stock for issuance to pre-incorporation subscribers.		

(4)

Cash.....	41,000	
Donated surplus (discount on treasury stock).....	164,000	
Treasury stock.....		205,000
To record the sale of 205,000 shares of treasury stock at \$.20 a share.		

(5)

Gas wells—producing.....	22,000	
Gas wells—abandoned.....	11,000	
Leases expired.....	451	
Leases unexpired.....	644	
Supervision.....	1,581	
Cash.....		35,676
To record the payments of cash by promoters.		

However, the problem states that only certain of these items accounted for by the promoters were recorded on the books. While the candidate is told that the credit was made to leases and contracts, he must assume that the cost of the producing gas wells (\$22,000) and the unexpired leases (\$644) was

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charged to some such account as development costs. The abandoned gas wells, leases expired, etc., are to be capitalized with the other development costs.

(6)

Leases and contracts	\$27,968	
Gas wells—producing		\$22,000
Leases unexpired		644
Cash		5,324
To reverse the entry made on the books crediting leases and contracts.		

(7)

Development costs	13,032	
Gas wells—abandoned		11,000
Leases expired		451
Supervision		1,581
To charge development costs with the pre-incorporation costs of gas wells, leases and supervision.		

(8)

Treasury stock	5,000	
Donated surplus		5,000
To record the receipt of an additional 5,000 shares of stock donated by Mr. Smith, which stock was issued to A. Jones in payment for pre-incorporation services.		

(9)

Treasury stock	100	
Development costs		100
To reverse the entry made by the company's bookkeeper who credited treasury stock account, and presumably charged development costs when a new certificate was issued in place of the certificate for 100 shares which was lost.		

(10)

Subscriptions to capital stock	1,250	
Development costs		1,250
To record the subscription for 1,250 shares of capital stock which were issued but for which payment was not received.		

As the problem is not very definite on the point, it may be reasonably assumed that the bookkeeper originally recorded the issuance of these 1,250 shares by charging accounts receivable, or some other account, and crediting treasury stock account. As the account charged is not known, the above entry is based upon the assumption that the account, development costs, was the catch-all in this case.

No entry is necessary to record the purchase of 1,000 shares of the capital stock of the company by the treasurer for his personal account. A certificate for these 1,000 shares should be issued to him in lieu of the 1,000 shares which he had purchased from the dissatisfied holder, and which had been surrendered and attached to its relative stub in the stock certificate book. After this certificate has been issued, the bookkeeper should be requested to prepare a list showing the outstanding certificates with the number of shares so shown to be outstanding, separating the treasury stock. The amount of shares shown to be outstanding, and held in the treasury, should then be compared with the respective controlling accounts.

(11)

Depletion	\$1,681.35
Reserve for depletion	\$1,681.35
To write off depletion for the period on the basis of 27½% of gross income of \$6,114.	

Regulations 74, article 241—"Under section 114 (b) (3), in the case of oil and gas wells, a taxpayer may deduct for depletion an amount equal to 27½ per cent. of the gross income from the property during the taxable year, but such deduction shall not exceed 50 per cent. of the net income of the taxpayer (computed without allowance for depletion) from the property." The profit-and-loss statement for the three months period ended March 31, 1931, shows a net loss of \$782.35 after the charge for depletion of \$1,681.35. Before depletion, the operations would show (\$1,681.35 minus \$782.35) a profit of \$899.00. The limitation on the depletion charge would be, therefore, 50 per cent. of \$899.00 or \$449.50, if the operations for this particular period of three months were considered as being for a taxable year.

(12)

Depreciation—camp buildings	\$ 18
Depreciation—equipment	1,500
Depreciation—automobiles	25
Reserve for depreciation—camp buildings	\$ 18
Reserve for depreciation—equipment	1,500
Reserve for depreciation—automobiles	25

 To record the depreciation for the period January 1, 1931, to March 31, 1931, as follows:

Asset	Cost	Annual rate	Depre- ciation
Camp buildings	\$ 720	10%	\$ 18
Equipment	60,000	10%	1,500
Automobiles	<u>400</u>	<u>25%</u>	<u>25</u>

(13)

Development costs	1,101	
Abstracts of title		670
Lease rentals		431
To transfer the abstracts of title and fixed lease rentals to development costs.		

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NATURAL GAS COMPANY

Statement of profit and loss for the period January 1, 1931, to March 31, 1931

Revenue from gas wells	\$6,114.00
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Expenses:

Automobile	\$	194.00
Royalties paid (12¼%)		764.00
Salary of manager		900.00
Sundry expense		454.00
Taxes paid (property)		37.00
Traveling		605.00
Depletion		1,681.35
Depreciation:		
Camp buildings	\$	18.00
Equipment		1,500.00
Automobiles		25.00
Interest paid		1,543.00
		718.00
		6,896.35

Net loss for the period	\$ 782.35
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NATURAL GAS COMPANY

Balance-sheet—March 31, 1931

Assets

Cash in bank	\$	182.00
Accounts receivable		1,967.00
Subscriptions receivable		1,250.00
Casing, pipe, etc., in stores		10,624.00

Fixed assets:

Kind	Cost	Reserve for depreciation	Carrying value	
Land	\$ 4,600.00	\$	\$ 4,600.00	
Automobile	400.00	25.00	375.00	
Camp buildings	720.00	18.00	702.00	
Equipment and pipe in place	60,000.00	1,500.00	58,500.00	
Totals	\$65,720.00	\$1,543.00	\$ 64,177.00	64,177.00

Leases, contracts and development costs:

Leases and contracts	\$500,000.00	
Development costs	125,147.00	
Total	\$625,147.00	
Less—reserve for depletion	1,681.35	
		623,465.65
Incorporation costs		674.00
		\$702,339.65

NATURAL GAS COMPANY

Working papers for the period January 1, 1931, to March 31, 1931

	Trial balance March 31, 1931	Adjustments		Profit and loss		Balance-sheet	
		Debit	Credit (13)	Debit	Credit	Debit	Credit
Abstracts of title.....	\$ 670.00		\$ 670.00			\$ 1,967.00	\$ 26,439.00
Accounts payable.....						400.00	
Accounts receivable.....	1,967.00						
Automobile.....	400.00						
Auto. expense.....	194.00			\$ 194.00			
Camp buildings.....	720.00					720.00	500,000.00
Capital stock authorized.....							
Cash in bank.....	182.00	(4) \$41,000.00	{ (5) 35,676.00 (6) 5,324.00			182.00	
Casing, pipe, etc., in stores.....	10,624.00					10,624.00	
Development costs.....	112,364.00	{ (7) 13,032.00 (9) 100.00 (13) 1,101.00 (10) 1,250.00				125,147.00	
Equipment and pipe in place.....	60,000.00					60,000.00	
Incorporation costs.....	674.00					674.00	
Interest paid.....	718.00			718.00			
Land.....	4,600.00					4,600.00	2,700.00
Land contracts.....	2,700.00						
Leases and contracts.....	472,032.00	(6) 27,968.00	(13) 431.00			500,000.00	
Lease rentals.....	431.00						
Notes payable.....	33,947.00						33,947.00
Revenue from gas wells.....	6,114.00				\$6,114.00		
Royalties paid (12½%).....	764.00			764.00			
Salary of manager.....	900.00			900.00			
Sundry expenses.....	454.00			454.00			
Surplus donated.....		100,000.00 (4)	164,000.00 { (3) 200,000.00 (5) 5,000.00				141,000.00

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Taxes paid (property).....	37.00				37.00
Traveling.....	605.00				605.00
Treasury stock.....	864.00				964.00
Gas wells—producing.....		(3) 200,000.00	(4) 205,000.00		
Gas wells—abandoned.....		(8) 5,000.00			
Leases expired.....		(9) 100.00			
Leases unexpired.....		(5) 22,000.00	(6) 22,000.00		
Supervision.....		(5) 11,000.00	(7) 11,000.00		
Subscriptions to capital stock.....		(5) 451.00	(7) 451.00		
Depletion.....		(5) 644.00	(6) 644.00		
Reserve for depletion.....		(5) 1,581.00	(7) 1,581.00		
Depreciation—camp buildings.....		(10) 1,250.00			1,250.00
Depreciation—equipment.....		(11) 1,681.35	(11) 1,681.35		1,681.35
Depreciation—automobile.....		(12) 18.00			18.00
Reserve for depreciation—camp buildings.....		(12) 1,500.00			1,500.00
Reserve for depreciation—equipment.....		(12) 25.00	(12) 18.00		25.00
Reserve for depreciation—automobile.....			(12) 1,500.00		1,500.00
Profit and loss.....			(12) 25.00		25.00
				782.35	782.35
				\$6,896.35	\$6,896.35
				\$492,351.35	\$492,351.35
				\$707,310.35	\$707,310.35

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Liabilities and net worth

Liabilities:

Accounts payable.....	\$ 26,439.00	
Notes payable.....	33,947.00	
Land contracts.....	2,700.00	
		\$ 63,086.00

Net worth:

Capital stock.....	\$500,000.00	
Less—treasury stock.....	964.00	\$499,036.00
		141,000.00
Donated surplus.....		
		\$640,036.00
Total.....		
Less—deficit from operations.....	782.35	639,253.65
		\$702,339.65

No. 2 (12 points):

Abel, Budd, Catt and Dunn were partners in a stock-exchange brokerage house. During the year 1929, through speculation, the capital of the firm was reduced to such an extent that it became necessary to seek financial aid. They succeeded in introducing a capitalist, by name Ezee, to become a partner and to invest, as such, \$500,000 in cash.

By the terms of the new partnership agreement, interest was to be allowed on capital at the rate of 6 per cent. per annum, and the average sales value of the seats on the exchanges held by the partners, plus cash, was to determine the values of their interests for capital purposes.

It was expressly stipulated that interest on the capital of the four partners—Abel, Budd, Catt and Dunn—should not be credited to them unless earned, but that the interest on Ezee's cash capital of \$500,000 should be paid to him in any circumstances.

Profits were to be divided on the following bases:

Abel.....	30 per cent.
Budd.....	25 “ “
Catt.....	15 “ “
Dunn.....	10 “ “
Ezee.....	20 “ “

The capital accounts as at December 31, 1930, were as follows:

	Average sales value of exchange seats	Cash
Abel.....	\$500,000	\$120,000
Budd.....	300,000	100,000
Catt.....	180,000	30,000
Dunn.....	80,000	45,000
Ezee.....		500,000

The firm sustained a loss of \$240,000, during the year 1930, before any distribution of interest on capital had been made.

How should this loss be apportioned?

Submit working papers showing how you reach your conclusions.

Solution:

Under the express stipulation of the partnership agreement, interest at the rate of 6 per cent. on his investment of \$500,000, or \$30,000, must be allowed to

ABEL, BUDD, CATT, DUNN, AND EZEZ

Statement of partners' capital accounts for the year ended December, 31, 1930

	Abel	Budd	Catt	Dunn	Ezee	Together
Average sales value of exchange seats.....	\$500,000	\$300,000	\$180,000	\$ 80,000	\$ 500,000	\$1,060,000
Cash.....	120,000	100,000	30,000	45,000		795,000
Totals, before interest and loss.....	\$620,000	\$400,000	\$210,000	\$125,000	\$500,000	\$1,855,000
Add—interest on capital account at 6% per annum.....					30,000	30,000
Totals before loss.....	\$620,000	\$400,000	\$210,000	\$125,000	\$530,000	\$1,885,000
Deduct share of loss.....	81,000	67,500	40,500	27,000	54,000	270,000
Balance, December 31, 1930.....	\$539,000	\$332,500	\$169,500	\$ 98,000	\$476,000	\$1,615,000

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Ezee. No interest is to be credited to the remaining partners "unless earned." The loss of \$240,000 should be increased by the amount of interest, \$30,000, allowable to Ezee, which loss should be distributed in the profit-and-loss sharing ratio as follows:

Partners	Profit and loss ratio	Share of loss
Abel.....	30%	\$ 81,000
Bud.....	25	67,500
Catt.....	15	40,500
Dunn.....	10	27,000
Ezee.....	20	54,000
Total.....	<u>100%</u>	<u>\$270,000</u>

A statement of the partners' capital accounts appears on the preceeding page.